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each level of partitioning. Other approaches to the partitioning process include min-cut, force-directed, simulated annealing, and spectral approaches.

IN THE CLAIMS

Please cancel claims 1/14 and 18-21 without prejudice, and replace with claims 22-36 as shown below.

In the design of integrated circuits, a computer controlled method for placing cells in a placement area, comprising:

generating a netlist through a synthesis process;
establishing a convergence criterion based upon a partition size;
executing a cell separation process according to the netlist:
changing the netlist in response to how the cells are placed;
modifying the spacings of the cells responsive to changes made to the netlist;
partitioning the cells into a plurality of partitions; and,
determining whether the partitions meet said criterion for convergence.

The method of claim 22, further comprising inputting HDL, user constraints, and technology data into the synthesis process for generating the netlist.

324. The method of claim 22 wherein a change to the netlist includes sizing a gate up or down.

The method of claim 22 wherein a change to the netlist includes adding or deleting one or more gates.

Serial No.: 08/886,625

Examiner: GARBOWSKI, L.

Art Unit: 2825

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- The method of claim 22 wherein the partition size is measured by the number of gates contained therein.
- In the design of integrated circuits, a computer controlled method for placing cells in a placement area, comprising:

generating a netlist through a synthesis process; establishing a convergence criterion based upon a partition size; executing a cell separation process according to the netlist; changing the netlist; changing the size of said placement area; modifying the spacings of the cells responsive to changes made to the netlist; partitioning the cells into a plurality of partitions; and,

The method of claim 27, further comprising inputting HDL, user constraints, and technology data into the synthesis process for generating the netlist.

determining whether the partitions meet said criterion for convergence.

The method of claim 27 wherein a change to the netlist includes sizing a gate up or down.

The method of claim 27 wherein a change to the netlist includes adding or deleting one or more gates.

The method of claim 27 wherein the partition size is measured by the number of gates contained.

Examiner: GARBOWSKI, L.

Art Unit: 2825

Serial No.: 08/886,625

In the design of integrated circuits, a computer controlled method for placing cells in a placement area, comprising:

generating a netlist through a synthesis process;
establishing a convergence criterion based upon a partition size;
executing a cell separation process according to the netlist:
changing the netlist in response how the cells are placed;
changing the size of said placement area;
modifying the spacings of the cells responsive to changes made to the netlist;
partitioning the cells into a plurality of partitions; and,
determining whether the partitions meet said criterion for convergence.

33. The method of claim 22, further comprising inputting HDL, user constraints, and technology data into the synthesis process for generating the netlist.

34. The method of claim 22 wherein a change to the netlist includes sizing a gate up or down.

25. The method of claim 22 wherein a change to the netlist includes adding or deleting one or more gates.

36. The method of claim 22 wherein the partition size is measured by the number of gates contained.

Serial No.: 08/886,625

Examiner: GARBOWSKI, L.

Art Unit: 2825